

Having thus described the invention, it is now claimed:

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1. A communications module comprising:
a first section for processing data in accordance with at least a first
5 communication standard; and
a second section for transmitting and receiving data via an antenna
in accordance with the first communication standard, said second section
detachable from the first section.
 - 10 2. A communications module according to claim 1, wherein
said first communication standard uses a first frequency band.
 - 15 3. A communications module according to claim 1, wherein
said second section is replaceable with a third section for transmitting and
receiving data via an antenna in accordance with a second communication
standard.
 - 20 4. A communications module according to claim 1, wherein
said second communication standard uses a second frequency band.
 5. A communications module according to claim 1, wherein
said first section and said second section are electrically connected via
respective mating connecting members.
 - 25 6. A communications module according to claim 1, wherein
said first section includes a Medium Access Control (MAC) processing system,
and a physical layer (PHY) processing device.

7. A communications module according to claim 6, wherein said first section includes at least one memory device.

5 8. A communication module according to claim 6, wherein said first section includes a second connecting member for electrically connecting said first section with a HOST processor.

10 9. A communications module according to claim 1, wherein said second section includes a first circuit for converting signals between radiofrequencies and intermediate frequencies.

15 10. A communications module according to claim 9, wherein said second section includes a second circuit for converting a signal between intermediate frequencies and baseband frequencies.

20 11. A communications module according to claim 1, wherein said second section includes a first circuit for converting signals between radiofrequencies and baseband frequencies.

12. A communications module according to claim 1, wherein said second section includes a low noise amplifier (LNA).

25 13. A communications module comprising:
a first section including means for processing data in accordance with at least a first communication standard; and

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a second section including means for transmitting and receiving data via an antenna in accordance with the first communication standard, said second section detachable from the first section.

5 14. A communications module according to claim 13, wherein said first communication standard uses a first frequency band.

10 15. A communications module according to claim 13, wherein said second section is replaceable with a third section including means for transmitting and receiving data via an antenna in accordance with a second communication standard.

15 16. A communications module according to claim 13, wherein said second communication standard uses a second frequency band.

17. A communications module according to claim 13, wherein said first section and said second section are electrically connected via respective means for connecting.

20 18. A communications module according to claim 13, wherein said first section includes a Medium Access Control (MAC) processing system, and a physical layer (PHY) processing device.

25 19. A communications module according to claim 18, wherein said first section includes at least one means for storing data.

20. A communication module according to claim 18, wherein said first section includes a connecting means for electrically connecting said first section with a HOST processor.

5 21. A communications module according to claim 13, wherein said second section includes first conversion means for converting signals between radiofrequencies and intermediate frequencies.

10 22. A communications module according to claim 21, wherein said second section includes a second conversion means for converting a signal between intermediate frequencies and baseband frequencies.

15 23. A communications module according to claim 13, wherein said second section includes conversion means for converting signals between radiofrequencies and baseband frequencies.

24. A communications module according to claim 13, wherein said second section includes means for amplifying a signal.